

Watershed Evaluations

03040205-010

(Black River)

General Description

Watershed 03040205-010 is located in Lee and Sumter Counties and consists primarily of the **Black River** and its tributaries from its origin to Church Branch. The watershed occupies 52,966 acres of the Sandhills and Upper Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Noboco-Bonneau-Paxville-Johnston series. The erodibility of the soil (K) averages 0.16; the slope of the terrain averages 3%, with a range of 0-10%. Land use/land cover in the watershed includes: 56.4% agricultural land, 20.2% scrub/shrub land, 12.5% forested land, 8.3% forested wetland (swamp), 1.4% urban land, 1.0% nonforested wetland (marsh), and 0.2% water.

The Black River originates near the City of Bishopville and accepts drainage from Gin Branch (Laws Branch), Broad Branch, Church Branch (Meadow Branch), and Casual Branch. Further downstream, Stony Run Branch (Little Stony Run Branch) enters the river followed by Nancy Branch and the Atkins Drainage Canal Watershed. The river flows through the Black River Swamp at the base of the watershed. There are several recreational ponds (totaling 67.6 acres) and a total of 106.6 stream miles in this watershed. The Black River is classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.5) and the remaining streams in the watershed are classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-353	S	FW*	BLACK RIVER AT S-43-57

Black River (PD-353) - Aquatic life uses are fully supported. This is a blackwater system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Recreational uses are partially supported due to fecal coliform bacteria excursions.

A fish consumption advisory has been issued by the Department for mercury and includes the Black River within this watershed (see advisory p. 73).

NPDES Program

Active NPDES Facilities**RECEIVING STREAM****FACILITY NAME****PERMITTED FLOW @ PIPE (MGD)****COMMENT****NPDES#****TYPE****LIMITATION**

GIN BRANCH

LEE COUNTY LANDFILL, S.C., LLC

PIPE #: 001 FLOW: 1.47

WQL FOR DO,TRC,NH3N,BOD5

SC0044792

MINOR INDUSTRIAL

WATER QUALITY

Nonpoint Source Management Program**Land Disposal Activities****Landfill Facilities****LANDFILL NAME****FACILITY TYPE****PERMIT #****STATUS**

LEE COUNTY LANDFILL - MAWS

MUNICIPAL

312411-1101

ACTIVE

LEE COUNTY LANDFILL

MUNICIPAL

DWP-136

ACTIVE

Land Application Sites**LAND APPLICATION SYSTEM****FACILITY NAME****ND#****TYPE**

SPRAYFIELD

TOWN OF MAYESVILLE

ND0069787

DOMESTIC

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains a portion of the City of Bishopville and the Town of Mayesville, together with portions of I-20, U.S. Hwy. 15, and U.S. Hwy. 76. Residential, commercial, and industrial growth is expected surrounding the municipal areas and major road corridors. The remainder of the watershed is rural with agricultural and timberland uses.